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L3	1359	(window with (close or closing or remove or removing or change or changing)) same ((different or other or another or second) with (function or command or markup or edit or editing or annotation or input))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:07
L4	19	3 same ((navigat\$ or link or move or moving or linking or connect or connecting or previous or next) with (annotation or markup or edit or editing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 20:54
L5	119	3 and ((navigat\$ or link or move or moving or linking or connect or connecting or previous or next) with (annotation or markup or edit or editing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:06
L6	60	5 and (document or website or page) with (annotat\$ or mark or edit or editing or markup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:05
L7	39	6 and (user near3 interface)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 20:56
L8	56	6 and (other or another or different or second or previous or next) with (annotation or editing or markup or edition or edit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 20:57
L9	1059	715/790-804.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:08

L10	170	9 and (document or website or page) with (annotat\$ or mark or edit or editing or markup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:09
L11	51	10 and ((navigat\$ or link or move or moving or linking or connect or connecting or previous or next) with (annotation or markup or edit or editing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:09
L12	48	11 not 6 not 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:09
L13	3	11 and (window with (close or closing or remove or removing or change or changing)) same ((different or other or another or second) with (function or command or markup or edit or editing or annotation or input))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:07
L14	0	715/795-797, 802-804.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:08
L15	720	715/795-797,802-804.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:08
L16	125	15 and (document or website or page) with (annotat\$ or mark or edit or editing or markup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:09
L17	37	16 and ((navigat\$ or link or move or moving or linking or connect or connecting or previous or next) with (annotation or markup or edit or editing))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/15 21:09
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Relevance scale

A comparison of reading paper and on-line documents

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window

Kenton O'Hara, Abigail Sellen

March 1997 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: T pdf(1.12 MB)

Additional Information: full citation, references, citings, index terms

Keywords: Web, design, digital documents, digital libraries, hypertext, paper, reading

1a---Links and Navigation: Fluid annotations in an open world Polle T. Zellweger, Niels Olof Bouvin, Henning Jehøj, Jock D. Mackinlay September 2001 Proceedings of the twelfth ACM conference on Hypertext and Hypermedia

Full text available: pdf(279.57 KB)

Additional Information: full citation, abstract, references, citings, index

Fluid Documents use animated typographical changes to provide a novel and appealing user experience for hypertext browsing and for viewing document annotations in context. This paper describes an effort to broaden the utility of Fluid Documents by using the open hypermedia Arakne Environment to layer fluid annotations and links on top of arbitrary HTML pages on the World Wide Web. Changes to both Fluid Documents and Arakne are required.

Keywords: Arakne, fluid documents, open hypermedia, web augmentation with open hypermedia

Beyond paper: supporting active reading with free form digital ink annotations Bill N. Schilit, Gene Golovchinsky, Morgan N. Price

January 1998 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

Keywords: affordances of paper, document metaphor, dynamic hypertext, information retrieval, paper-like user interface, pen computing, reading online

4 Languages & Authoring for the Semnatic Web: Authoring and annotation of web pages in CREAM



Siegfried Handschuh, Steffen Staab

May 2002 Proceedings of the eleventh international conference on World Wide Web

Full text available: pdf(764.65 KB)

Additional Information: full citation, abstract, references, citings, index terms

Richly interlinked, machine-understandable data constitute the basis for the Semantic Web. We provide a framework, CREAM, that allows for creation of metadata. While the annotation mode of CREAM allows to create metadata for existing web pages, the authoring mode lets authors create metadata --- almost for free --- while putting together the content of a page. As a particularity of our framework, CREAM allows to create relational metadata, i.e. metadata that instantiate interrelated defini ...

Keywords: RDF, annotation, metadata, semanticWeb

5 Webtour: a system to record and playback dynamic multimedia annotations on web document content



Chellury R. Sastry, Darrin P. Lewis, Arturo Pizano

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2)

Full text available: 🔂 pdf(619.21 KB) Additional Information: full citation, references, citings, index terms

Keywords: WEBTOUR, guided web tour, multimedia annotations, plug-in

6 Hypermedia in the Small: Fluid annotations through open hypermedia: using and extending emerging web standards





Additional Information: full citation, abstract, references, citings, index terms

The Fluid Documents project has developed various research prototypes that show that powerful annotation techniques based on animated typographical changes can help readers utilize annotations more effectively. Our recently-developed Fluid Open Hypermedia prototype supports the authoring and browsing of fluid annotations on third-party Web pages. This prototype is an extension of the Arakne Environment, an open hypermedia application that can augment Web pages with externally stored hypermedia s ...

May 2002 Proceedings of the eleventh international conference on World Wide Web

Keywords: RDF, XLink, XPointer, annotations, annotea, fluid documents, web augmentation with open hypermedia

Paper augmented digital documents

François Guimbretière

November 2003 Proceedings of the 16th annual ACM symposium on User interface software and technology

Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, citings, index

Paper Augmented Digital Documents (PADDs) are digital documents that can be manipulated either on a computer screen or on paper. PADDs, and the infrastructure supporting them, can be seen as a bridge between the digital and the paper worlds. As digital documents, PADDs are easy to edit, distribute and archive; as paper documents, PADDs are easy to navigate, annotate and well accepted in social settings. The chimeric nature of PADDs make them well suited for many tasks such as proofreading ...

Keywords: PADD, anoto, digital pen, paper augmented digital document, paper based user interface

Improving interaction: MADCOW: a multimedia digital annotation system Paolo Bottoni, Roberta Civica, Stefano Levialdi, Laura Orso, Emanuele Panizzi, Rosa Trinchese May 2004 Proceedings of the working conference on Advanced visual interfaces

Full text available: 🔁 pdf(396.57 KB) Additional Information: full citation, abstract, references, index terms

Digital annotation of multimedia documents adds information to a document (e.g. a web page) or parts of it (a multimedia object such as an image or a video stream contained in the document). Digital annotations can be kept private or shared among different users over the internet, allowing discussions and cooperative work. We study the possibility of annotating multimedia documents with objects which are in turn of multimedial nature. Annotations can refer to whole documents or single portions t ...

Keywords: annotation, multimedia document, plug-ins

User modeling II: Magpie: supporting browsing and navigation on the semantic web John Domingue, Martin Dzbor

January 2004 Proceedings of the 9th international conference on Intelligent user interface

Full text available: pdf(611.44 KB) Additional Information: full citation, abstract, references, index terms

We describe several advanced functionalities of Magpie -- a tool that assists users with interpreting the web resources. Magpie is an extension to the Internet Explorer that automatically creates a semantic layer for web pages using a user-selected ontology. Semantic layers are annotations of a web page, with a set of applicable semantic services attached to the annotated items. We argue that the ability to generate different semantic layers for a web resource is vital to support the interpretat ...

Keywords: browsing history management, named entity recognition, semantic web, semantic web services

10 The art of navigating through hypertext

Full text available: pdf(2.41 MB)

Jakob Nielsen

h

March 1990 Communications of the ACM, Volume 33 Issue 3

Additional Information: full citation, abstract, references, citings, index terms, review

Hypertext (3), (19), (25) is becoming a popular approach to many computer applications, especially those dealing with the on-line presentation of large amounts of loosely structured information such as on-line documentation or computer-aided learning. There are still many issues concerning hypertext that remain to be resolved, however, many of which are in the user interface area. One of the major usability problems with hypertext is the user's risk of

cf c g e



disorientation while navigating the in ...

Full text available: pdf(917.53 KB)

interfaces

Keywords: Context, HyperCard, hypermedia, interaction history, user navigation

11 Web accessibility: Navigation of HTML tables, frames, and XML fragments E. Pontelli, D. Gillan, W. Xiong, E. Saad, G. Gupta, A. I. Karshmer July 2002 Proceedings of the fifth international ACM conference on Assistive technologies

> Additional Information: full citation, abstract, references, citings, index terms

In this paper, we provide a progress report on the development of technology to support the non-visual navigation of complex HTML and XML structures.

Keywords: Web Accessibility, visually impaired users

12 Full Papers: Annotating and sketching on 3D web models

Thomas Jung, Mark D. Gross, Ellen Yi-Luen Do January 2002 Proceedings of the 7th international conference on Intelligent user

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.03 MB) terms

This paper reports on our progress and findings in building a Web annotation system for non-immersive 3D virtual environments. Over the last two years, we developed and tested two systems for collaborating designers to comment on virtual 3D models. Our first system, Redliner [12] lets design team members browse and leave text annotations on surfaces in three-dimensional models. Experience with Redliner, including two user evaluations in different settings, led us to develop Space Pen [13], a sec ...

Keywords: 3D models, Java 3D, VRML, annotation, collaboration, gesture recognition, penbased interface, sketch in 3D

13 Technical Papers: CREAM: creating relational metadata with a component-based, ontology-driven annotation framework

Siegfried Handschuh, Steffen Staab, Alexander Maedche

October 2001 Proceedings of the international conference on Knowledge capture

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(270.14 KB) terms

Richly interlinked, machine-understandable data constitutes the basis for the Semantic Web. Annotating web documents is one of the major techniques for creating metadata on the Web. However, annotation tools so far are restricted in their capabilities of providing richly interlinked and truely machine-understandable data. They basically allow the user to annotate with plain text according to a template structure, such as Dublin Core. We here present CREAM (Creating RElational, Annotation-based M ...

Keywords: DAML+OIL, RDF, annotations, markup, metadata, ontology, semantic web

14 Squeeze me, hold me, tilt me! An exploration of manipulative user interfaces Beverly L. Harrison, Kenneth P. Fishkin, Anuj Gujar, Carlos Mochon, Roy Want January 1998 Proceedings of the SIGCHI conference on Human factors in computing systems



Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

Keywords: UI design, interaction technology, physical, tactile, and haptic UIs, pressure and tilt sensors

15 InterNote: extending a hypermedia framework to support annotative collaboration T. Catlin, P. Bush, N. Yankelovich

November 1989 Proceedings of the second annual ACM conference on Hypertext

Full text available: pdf(1.31 MB)

Additional Information: full citation, abstract, references, citings, index terms

Based on three years of user feedback, a design team at IRIS embarked on a project to enhance Intermedia to better support small groups of collaborators, particularly those involved with document review and revision. Towards this end, we defined user-level requirements for the new functionality. The result of this process was the design and implementation of InterNote. One aspect of InterNote involves a fundamental extension to Intermedia's navigational linking paradigm. Instead of simply b ...

16 A computational model and classification framework for social navigation Mark O. Riedl

January 2001 Proceedings of the 6th international conference on Intelligent user interfaces

Full text available: pdf(247.36 KB)

Additional Information: full citation, abstract, references, citings, index

Social navigation is the process of making navigational decisions in real or virtual environments based on social and communicative interaction with others. A computational model for social navigation is presented as an extension to an existing framework for general navigation, reducing decision-making to the minimization of cognitive costs. Consideration for social navigation gives rise to a classification framework based on the synchronicity, directness, and social presence during social ...

Keywords: World Wide Web, embodied avatars, recommender systems, social navigation model, social presence

17 Open hypermedia and the web: Xspect: bridging open hypermedia and XLink Bent G. Christensen, Frank Allan Hansen, Niels Olof Bouvin May 2003 Proceedings of the twelfth international conference on World Wide Web

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(288.32 KB) terms

This paper evaluates the XLink format in comparison with other linking formats. The comparison is based on Xspect, an implementation of XLink. Xspect handles transformation between an open hypermedia format (OHIF) and XLink, and the paper discusses this isomorphic transformation and generalises it to include another open hypermedia format, FOHM. The Xspect system, based on XSLT and Javascript, provides users with an interface to browse and merge linkbases. Xspect supports navigational hypermedia ...

Keywords: FOHM, OHIF, SVG, XLink, XPointer, Xspect, annotations, open hypermedia

18 Analysis of navigation behaviour in web sites integrating multiple information systems Bettina Berendt, Myra Spiliopoulou



March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1

Full text available: pdf(281.14 KB) Additional Information: full citation, abstract, citings, index terms

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

19 Studying users: Reading-in-the-small: a study of reading on small form factor devices Catherine C. Marshall, Christine Ruotolo

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(394.47 KB) terms

The growing ubiquity of small form factor devices such as Palm Pilots and Pocket PCs, coupled with widespread availability of digital library materials and users' increasing willingness to read on the screen, raises the question of whether people can and will read digital library materials on handhelds. We investigated this question by performing a field study based on a university library's technology deployment: two classes were conducted using materials that were available in e-book format on ...

Keywords: E-books, annotation, collaboration, digital libraries, education, field study, handheld computers, reading

²⁰ Navigation by query in virtual worlds

Alex van Ballegooij, Anton Eliéns

February 2001 Proceedings of the sixth international conference on 3D Web technology

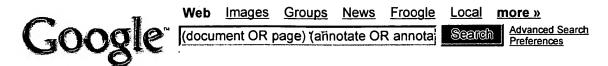
Full text available: pdf(785.90 KB) Additional Information: full citation, references, citings, index terms

Keywords: VRML, navigation, query

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@jpf:forward Annotation

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experimentalstuff.com: Text Document

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- ... network and we allow annotation flow between nodes. Both from page to ...

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